SpotMax™

AX10

USER MANUAL

Manual Version: 1.3
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CE FC

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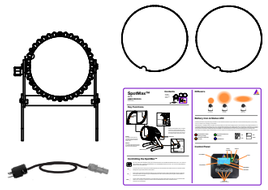


Controlling the SpotMax™

Set a color or basic effect through the control pad on the AX10's backside. Press the MENU/COLOR button and use the + and – buttons to display different colors. Confirm with the ENTER button. Press the ENTER/PROG button and use the + and – button to display different programs. Confirm with ENTER button.

IR

Use Astera's ARC1 remote control, point at individual lights and press the desired effect. Note that the IR sensor is on the AX10 rearside although the IR signal should bounce of walls and floor.

RF

Astera's remote control and the AsteraTouch tablet can group several lights together, address individual lights or groups of lights and send complex effects to all lights in range. For additional information refer to the manual and quick start guide of ARC2 and ARC6 at www.astera-led.com/downloads.

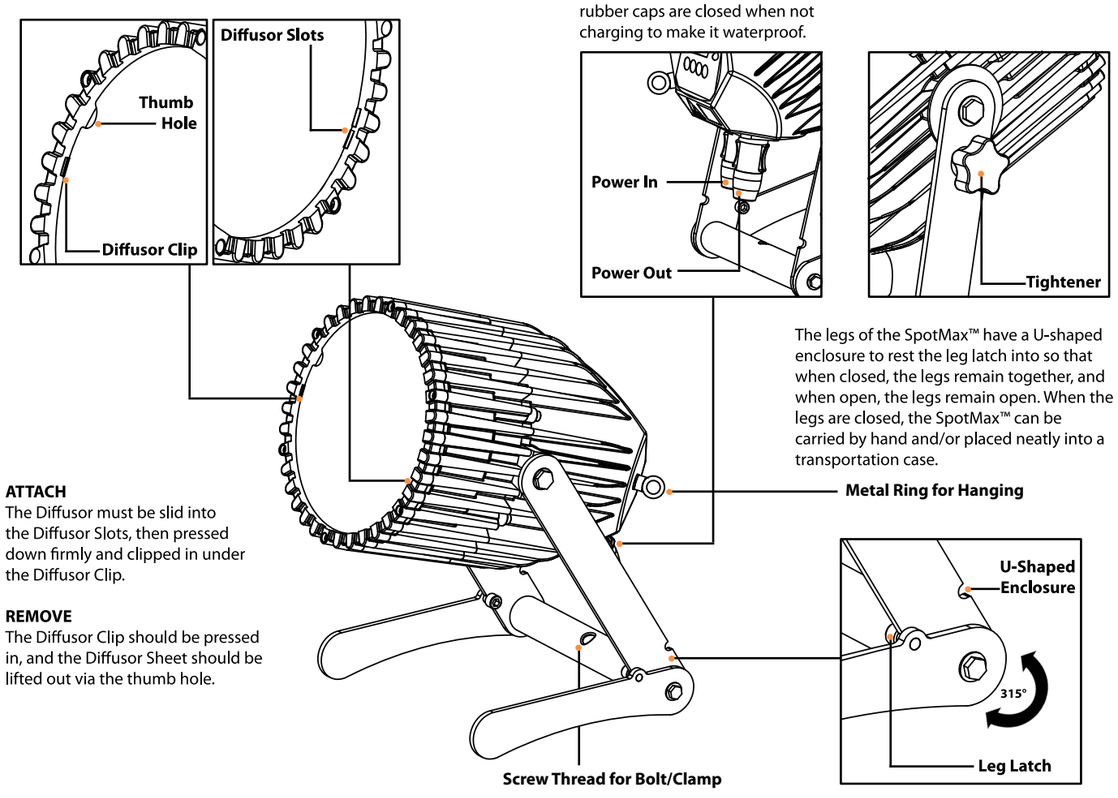
DMX

Connect an ART3 (Wireless DMX Transmitter) to your DMX desk to send wireless DMX signals to the AX10. You can set the AX10's DMX address on its control pad or send it from a remote control. Additionally, the AX10 can be controlled by CRMX Wireless DMX (from Lumen Radio) and W-DMX (from Wireless Solutions). For additional information refer to the respective manufacturer's manual.

LumenRadio

The AX10 can also be controlled by CRMX Wireless DMX, which also supports W-DMX (from Wireless Solutions). The pairing of AX10 to Transmitter is done automatically. To unpair, simply do a FACTORY RESET. See manufacturer's manual for more info.

Key Functions



ATTACH
The Diffusor must be slid into the Diffusor Slots, then pressed down firmly and clipped in under the Diffusor Clip.

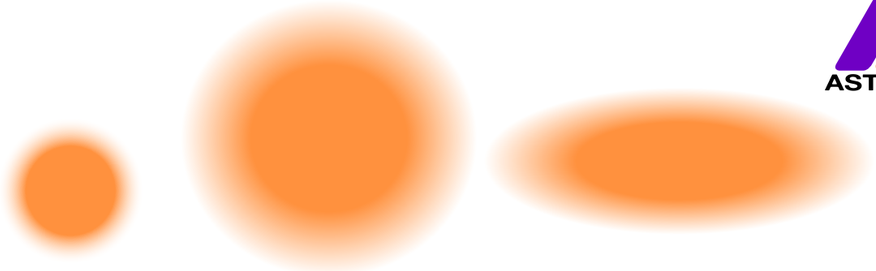
REMOVE
The Diffusor Clip should be pressed in, and the Diffusor Sheet should be lifted out via the thumb hole.

Due to the Powercon True1 cord, the SpotMax™ is IP65 waterproof, even when charging. Ensure the rubber caps are closed when not charging to make it waterproof.

Turn clock-wise to tighten the legs of the SpotMax™.

The legs of the SpotMax™ have a U-shaped enclosure to rest the leg latch into so that when closed, the legs remain together, and when open, the legs remain open. When the legs are closed, the SpotMax™ can be carried by hand and/or placed neatly into a transportation case.

Diffusors



NOTE:
Each diffusor has its name inscribed on the edge.

For ideal illumination the text on the face should be facing outwards.

Perfect Spot
Beam: 13°
(without diffusor)

Flood
Beam: 32°
(FLOOD diffusor)

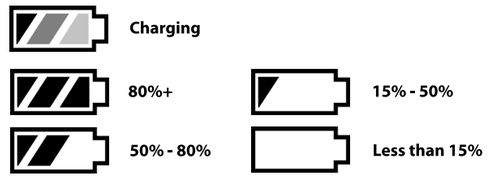
Wallwash
Beam: 17° x 46°
(WALLWASH diffusor)

Battery Icon & Status LED

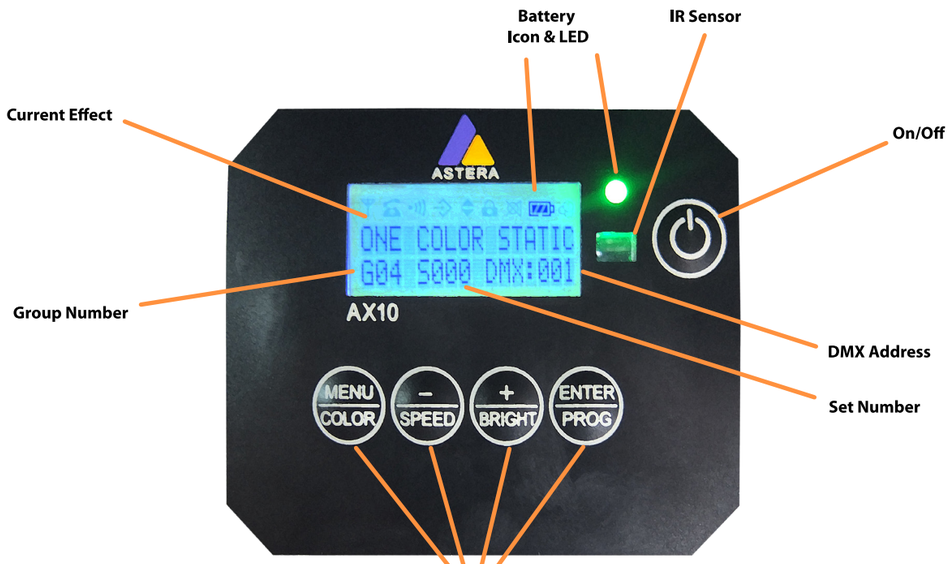
The Battery Status LED is designed for being used before an event. All fixtures should have a green Status LED to ensure that the battery lasts for your upcoming event. If it is another color, recharging is recommended.

While the battery is charging the Status LED will be blue. Also, the Battery Icon will start the charging sequence. Once the battery is fully charged the battery icon on the display will show all 3 bars (as below). If the battery is already fully charged and the power cord is plugged in, the display will show a battery with moving bars for approx. 30-60 seconds after which it will stop and the icon will show a full battery. When the SpotMax™ is turned off and the power cord is connected, the charging process will begin.

- **Less than 30mins runtime remaining; recharge**
- **Over 30mins runtime have been used**
- **Up to 30mins runtime have been used**
- **Connected to AC**



Control Panel



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Technical Data

The SpotMax™ contains 9 RGBAW Philips LEDs, each containing 15W of LED power, totalling an impressive 135W LED power.

Illuminants:	9 x 15W RGBAW Philips LEDs
Total LED Power:	135W
Light Output:	3,350 lm at 4000K
typical values	3,150 lm at 6500K
	3,100 lm at 7500K
Luminous Emittance:	10,350 lx at 2m
typical values	4,700 lx at 3m
	1,800 lx at 5m
CRI:	92 at 3000K (60%-70% intensity)
typical value	
Strobe:	0-25Hz
Beam Angle:	13° Khatod lenses
Battery:	Built-in Samsung battery
Battery Lifetime:	70% capacity after 300 full charging cycles
Battery Runtime:	5-15 hours*
LED Lifetime:	50,000 hours
Working Voltage:	Input 110-240V, 50/60Hz
Power Consumption:	170W (maximum)
Wireless Module:	868MHz (US: 902-928MHz) 2.4GHz wireless module
Range:	300m / 330yds (maximum)
DMX Capable:	CRMX Wireless DMX (Lumen Radio) W-DMX (Wireless Solutions), or Wireless DMX (with ART3)
Connector:	Neutrik Powercon True1 In/Out
Housing:	Water-resistant cast aluminium
IP Rating:	IP65
Relative Humidity:	0-100% (non-condensing)
Operating Temperature:	0°-45°C (32°-104°F)
Weight:	7.87kg (17lbs)
Dimensions:	L279mm x H296mm x W253mm L10.9" x H11.6" x W9.9"
Environment:	Indoor / Outdoor
Features:	TruColor™ Calibration, Temperature compensation, Dynamic power-boost, Auto-white & Auto-amber, Dual antennas.
Included Accessories:	Power Cord, 2 x Diffusor Sheets
Also Available:	Charging Case (holds 4)

* depending on chosen power scheme

Menu Structure

Hold the MENU/COLOR button for 1-2 seconds to enter the Menu Structure (this can only be used when on the Status screen as seen below).

```
ONE COLOR STATIC
G01 S000 DMX:001
```

- INPUT SELECT
- AUTO SETTING
- DMX SETTINGS
- GENERAL SETTINGS
- INFO
- FACTORY RESET

INPUT SELECT
- **WIRELESS DMX** *The unit uses the RF signal sent by the Wireless DMX Transmitter (ART3)*
- **REMOTE CONTROL** *The unit uses the RF signal sent by the ARC2 Remote Controller*
- **STANDALONE** *The unit ignores all incoming signals and can only be operated through its control panel*
- **CRMX wirelessDMX** *The unit uses the CRMX wireless DMX signal sent by CRMX Transmitters*
- **AUTO** *The unit operates in auto mode and chooses any incoming signal*

AUTO SETTINGS
- **PROGRAM** *Chooses one of 20 pre-defined programs that can be customized by colors, intensity, power scheme, speed, fade, directions etc.*
- **INTENSITY** *Sets the brightness of the LEDs*
- **SPEED** *Sets the speed of the programs' effects*
- **FADE** *Sets the fade between the program effect steps*
- **DIRECTION**
- **CHAIN SIZE** *See how long the chain should become*
- **POS IN CHAIN** *Choose the position the unit should take in the chain*
- **SET SIZE** *Choose how long the set should become*
- **POS IN SET** *Choose the position the unit should take in the set*
- **COLOR C1 -** *User color 1*
- **COLOR C2 -** *User color 2*
- **COLOR C3 -** *User color 3*
- **COLOR C4 -** *User color 4*

DMX SETTINGS
- **DMX ADDRESS** *Sets the DMX address*
- **UNPAIR CRMX** *Cancels the automatic pairing of the AX10 to the transmitter*
- **DMX TAB**
- **STROBE**
- **DMX FAIL**

GENERAL SETTINGS
- **LED POWER**
- **BELONGS TO SET#** *Assigns the light to 1 of 255 sets so they can be easily targeted*
- **RADIO PIN** *Assigns a unique frequency to ensure uninterrupted use when other controllers are present*
- **AC FAILURE**
- **CONTRAST** *Sets the contrast of the display*

INFO

Serial number	Firmware version
Power-on hours	RF Link
Temperature	Radio pin
Battery state	Battery health
Calibration	Messages

FACTORY RESET

ARE YOU SURE?
NO YES

LEGEND

MENU / COLOR	- / SPEED	+ / BRIGHT	ENTER / PROG
BACK TO PREVIOUS MENU	SCROLL DOWN	SCROLL UP	CHOOSE/ CONFIRM
FROM THE STATUS SCREEN, PRESS THE ABOVE BUTTONS TO:			
ADJUST COLOR	ADJUST SPEED	ADJUST BRIGHTNESS	CHANGE PROGRAM
HOLD THE ABOVE BUTTON FOR 3SECS TO ASSIGN LIGHT TO:			
GROUP 1	GROUP 2	GROUP 3	GROUP 4

DIRECTION *Adjusts direction and looping of programs' effects*
- **FFW+LOOP** *Programs run in normal (forward) direction. When a program finishes, it starts over*
- **REV+LOOP** *Programs run in reversed direction. When a program finishes, it starts over*

DMX TAB *Several different MX tables can be chosen*
- **RGB S RGB S..** *For each pixel, there are three channels RGB and one channel stroboscope*
- **RGB RGB S S ..** *All RGB channels are followed by all stroboscope channels*
- **EFFECT MODE MIX** *The four user colors are controlled*
- **EFFECT MODE RGB** *The four user colors are controlled by three DMX channels*
- **RGBAW S** *For each pixel 5 channels can be set individually, followed by 1 channel stroboscope*
- **RGB CCT DIM IND** *Seven channels control each pixel, apart from RGB values, the color temperature, index color, a seamless brightness control, and strobe can be set*

STROBE *Sets a series of strobe effects*
- **SINGLE** *One DMX channel is supplied for the control of the stroboscope function and all pixels' strobe will be identical. When using this setting, DMX TAB should not be set to RGB S RGB S ..*
- **MULTIPLE** *For each pixel, the stroboscope can be controlled individually*
- **OFF** *Stroboscope is turned off globally. One DMX channel is supplied for the control of the stroboscope function and all pixels' strobe will be identical. When using this setting, DMX TAB should not be selected*

DMX FAIL *Detects DMX signal loss*
- **HOLD** *The output remains unchanged, the last DMX frame is displayed*
- **EMERGENCY LIGHT** *LEDs turn white until the DMX signal is restored*
- **BLACKOUT** *LEDs turn dark in case of DMX signal loss*
- **AUTO PROGRAM** *Plays the program set in AUTO SETTINGS > PROGRAMS*

LED POWER *3 different power schemes can be set to optimize the playback*
- **MAXIMISE RUNTIME** *The lights are less bright but battery will last up to 24hrs*
- **NORMAL** *The lights are normal brightness and battery will last at least 8hrs*
- **HIGH BRIGHTNESS** *The lights are set to a brightness that is stronger than normal but will drain the battery quickly*

AC FAILURE *Sets the behaviour when no AC current is detected*
- **EMERGENCY LIGHT** *If no AC current is detected the light turns white*
- **NO ACTION** *The playback continues as before*
- **BLACKOUT** *If no AC current is detected, all lights will turn off*

Troubleshooting

For more help, please visit our website support section at www.astera-led.com

The fixture does not turn on.
The battery may be empty. Connect it to the AC and try again. If there is still no power, consult our website.

The fixture turns on and the display is on, but the LEDs do not emit light.
The fixture could be set to BLACKOUT mode or set to display black color. If set to BLACKOUT, use the remote control to adjust the intensity or color. If this does not solve the problem, do a FACTORY RESET to wipte all settings.

The fixture is not working correctly - it does not display the color or effect chosen.
The fixture may still be operating under a previous setting. Do a FACTORY RESET to completely wipe all settings.

After completing a FACTORY RESET, the fixture still cannot be controlled.
Make sure the RADIO PIN of the fixture and controller are the same. If it still cannot be controlled, consult our website.

The fixture has a shorter runtime than 8 hours.
The LED POWER default setting is HIGH BRIGHTNESS. To achieve a greater battery runtime, set the LED POWER to NORMAL or MAXIMISE RUNTIME, which will guarantee either 8 hrs or 24 hrs of operation. Alternatively, program the fixture to only display colors that use less power, such as Red, Green and Blue.

The power cable is connected but the fixture is not charging.
The battery may be fully charged. Refer to the Battery Icon section of this User Manual for more details. The fixture will only commence charging when it has a temperature of 45° or less. Turn the fixture off and let it cool down, then resume charging. If it still not charging, consult our website.

Safety

Before you operate this unit, read the manual carefully. Always make sure to include the manual if you pass/rent/sell the unit to another user. Keep in mind that this manual cannot address all possible dangers and environments. Please use your own caution when operating.

Do not operate the unit in areas of temperature conditions or under direct sunlight. It will cause abnormal function or damage the product.

Only qualified personnel may repair this product. Do not open the product housing.

A rechargeable battery is built into this unit. Please avoid bumping or plunging, it will cause FIRE or EXPLOSION. Never store the battery when fully drained. Always recharge immediately when empty.

Make sure to fully charge all units before storing them. Partially charged batteries will lose capacity. Do not store the unit longer than 3 months without re-charging.

The exterior surfaces of the SpotMax™ can become hot, up to 70° C (158° F), during normal operation. Ensure that accidental physical contact with the devices is impossible. Allow all AX10 devices to cool before servicing. Use only Astera approved accessories to diffuse or modify the light beam.

Do not directly look at the light beam for long periods. It can cause harm to your eyes. Do not look into the beam at a distance of less than 0.5 meters (20 inches) from the front surface of the product, and do not look at LEDs with a magnifying glass or any other optical instrument that may concentrate the light output.

This product is for professional use only. It is not for household use.